California Energy Commission

PIER Program Transportation

Solicitation PON-08-009 - Advance Heavy Duty Natural Gas Engine Research & Development

RD&D Committee Funding Recommendations

Proposal Number	Applicant	Project Title	PIER Funds Requested	PIER Funds Recommended	Cost Share	Score	Rank
8	Gas Technology Institute	Ultra-Low Emissions, 12-13 Liter Heavy Duty Natural Gas Engine Development	$1,000,000.00	$1,000,000.00	$1,390,686.00	87	1
1	Westport Power, Inc.	Lower Cost High Performance and High Efficiency Pilot-Ignited Directly Injected HD Natural Gas Engine	$998,844.00	$998,844.00	$998,844.00	85	2
6	Volvo Technology Corporation	Gas Optimized Advanced Heavy Duty Engine Concept	$999,970.00	$999,970.00	$390,259.00	79	3
4	MAHLE Powertrain	Modern Spark Ignition Engine Technology	$882,724.00	$0.00	$0.00	75	4
5	Sturman Industries, Inc.	Sturman Digital Technologies for Natural Gas Engines	$999,949.00	$0.00	$135,591.00	72	5
9	BOSCH	Homogeneous Charge Jet ignition System	$744,112.00	$0.00	$590,223.00	Did Not Pass	Did Not Pass
3	VanDyne SuperTurbo, Inc.	Application of a SuperTurboCharger and Other Boosting Approaches to Heavy-Duty Natural Gas Engines to Improve Power Density, Efficiency and Part-Load Throttle Response	$984,760.00	$0.00	$261,691.00	Did Not Pass	Did Not Pass
7	Colorado State University	Development of a Lean-Burn Electric Hybrid Engine System for Heavy Duty Natural Gas Vehicles	$830,208.00	$0.00	$122,300.00	Did Not Pass	Did Not Pass
10	CSU, Sacramento	High-Efficiency Heavy-Duty Natural Gas Three-Stage Intercooled Compound Engine	$999,971.00	$0.00	$0.00	Did Not Pass	Did Not Pass
2	HEIHE Technology, Inc.	Application of Dynamic Cylinder Deactivation for Advanced Heavy Duty Natural Gas Engines	$336,000.00	$0.00	$0.00	Did Not Pass	Did Not Pass
Total Funding			**$8,776,538.00**	**$2,998,814.00**	**$3,889,594.00**		

Summary of Proposed Awards

Proposal Number	Applicant	Project Title	PIER Funds Requested	PIER Funds Recommended	Cost Share	Score	Rank
8	Gas Technology Institute	Ultra-Low Emissions, 12-13 Liter Heavy Duty Natural Gas Engine Development	$1,000,000.00	$1,000,000.00	$1,390,686.00	87	1
1	Westport Power, Inc.	Lower Cost High Performance and High Efficiency Pilot-Ignited Directly Injected HD Natural Gas Engine	$998,844.00	$998,844.00	$998,844.00	85	2
6	Volvo Technology Corporation	Gas Optimized Advanced Heavy Duty Engine Concept	$999,970.00	$999,970.00	$390,259.00	79	3
TOTOAL Funding Recommended			**$2,998,814.00**	**$2,998,814.00**	**$2,779,789.00**		